What is claimed is:

1. A hollow-fiber membrane module comprising:

a cylindrical casing having an inner wall,

a hollow-fiber membrane bundle contained in the cylindrical casing,

potting layers for fixing the hollow-fiber membrane bundle to the inner wall at both end portions of the hollow-fiber membrane bundle, and

baffle cylinders having slits extending in a direction at an angle to an axis extending along the cylindrical casing fitted in the potting layers.

2. A hollow-fiber membrane module comprising:

a cylindrical casing having an inner wall,

an inlet port at one end portion and an outlet port at another end portion,

a hollow-fiber membrane bundle contained in the cylindrical casing,

potting layers for fixing the hollow-fiber membrane bundle to the inner wall at both end portions of the hollow-fiber membrane bundle,

a header having an outlet port for liquid undergoing treatment provided at one of the cylinder end portions,

a header having an inlet port for the liquid undergoing treatment provided at the other cylinder end portion, and

baffle cylinders having slits extending in a direction at an angle to an axis extending along the cylindrical casing fitted in the potting layers.

3. A hollow-fiber membrane module comprising:

a cylindrical casing having an inner wall,

an input port at one end portion and an outlet port at another end portion,

a hollow-fiber membrane bundle contained in the cylindrical casing,

potting layers for fixing the hollow-fiber membrane bundle to the inner wall at both end portions of the hollow-fiber membrane bundle,

a header having an input port for liquid undergoing treatment provided at one of the cylinder end portions,

a header having an outlet port for the liquid undergoing treatment provided at the other cylinder end portion, and

baffle cylinders having slits extending in a direction at an angle to a axis extending along the cylindrical casing fitted in the potting layers.

4. A hollow-fiber membrane module comprising;

a cylindrical casing having an inner wall,

an inlet port at one end portion and an outlet port at another end portion,

a hollow-fiber membrane bundle contained in the cylindrical casing,

potting layers for fixing the hollow-fiber membrane bundle to the inner wall at both end portions of the hollow-fiber membrane bundle,

a header having an outlet port for treating liquid provided at one of the cylinder end portions,

a header having an inlet port for the treating liquid provided at the other cylinder end portion, and

baffle cylinders having slits extending in a direction at an angle to an axis extending along the cylindrical casing fitted in the potting layers.

5. A hollow-fiber membrane module comprising:

a cylindrical casing having an inner wall,

an inlet port at one end portion and an outlet port at another end portion,

a hollow-fiber membrane bundle contained in the cylindrical casing,

potting layers for fixing the hollow-fiber membrane bundle to the inner wall at both end portions of the hollow-fiber membrane bundle,

a header having an inlet port for treating liquid provided at one of the cylinder end portions,

a header having an outlet port for the treating liquid provided at the other cylinder end portion, and

baffle cylinders having slits extending in a direction at an angle to an axis extending along the cylindrical casing fitted in the potting layers.

6. The hollow-fiber membrane module according to any one of claims 1 through 5, wherein the slits form portions of spirals extending from a cylindrical screw shaft used as the cylindrical casing.

7. The hollow-fiber membrane module, according to any one of claims 1 through 5, wherein plural slits are arranged in the circumferential direction of the baffle cylinders.

8. The hollow-fiber membrane module according to claim 7, wherein plural slits are arranged at substantially equal intervals in the circumferential direction of the baffle cylinders.

9. The hollow-fiber membrane module according to any one of claims 1 through 5, wherein the treating liquid is blood.

10. The hollow-fiber membrane module according to claim 9, wherein the slits slant at an angle θ range of about 15° to about 60°, and the number of the slits is about 6 to about 12, the widths W of the respective slits being individually set in a range of about 0.5 mm to about 3 mm.

11. The hollow-fiber membrane module according to claim 7, wherein the treating liquid is blood.

12. The hollow-fiber membrane module according to claim 8, wherein the treating liquid is blood.